

UKHANOVA, Z.V.

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J. J. J.

✓ New methods of modifying artificial and synthetic fibres. N. Y. Mikhailov, Z. V. Ukhanova, V. S. Kulmenkov and G. A. Kabanikhov (Textil. Prom., 1954, 14, No. 9, 11-12).—New fibres were obtained from mixtures of (a) acetylcellulose and other cellulose derivatives with polyacrylonitriles, chlorinated polyvinyl chloride or its copolymers, and (b) polyamides with polyhydrocarbons or other synthetic high-melting compounds. Study of these modified fibres confirmed the practical possibility of changing all the physico-chemical and mechanical properties of the fibres and of imparting to them important qualities such as hygroscopicity, dye-ability, heat stability, non-flammability, rigidity and elasticity. During the investigations, new possibilities were found for chemical conversions by way of saponification, and for dyeing some of the synthetic fibres by introducing into the mass a coloured polymeric component. J. Text. Inst. (R.I.C.)

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УКХАНОВА, З.В.

MIKHAYLOV, N.V.; UKHANOVA, Z.V.; POKROVSKAYA, N.B.

The relaxation mechanism in the formation of windings in synthetic fibers. Soob.o nauch.rab.chl.VKHO no.3:63-65 '55. (MIRA 10:10)  
(Textile fibers, Synthetic)

UKHANOVA, Z. V.

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✓ Dyeing polyacrylonitrile fibers with vat dyes. N. V. Mikhailov, V. I. Malburada, E. A. Kurlchik, G. I. Solov'eva, and Z. V. Ukhanova. U.S.S.R. 102,339, Mar. 25, 1955. To a spinning soln. acrylonitrile-hydroxyethylcellulose dyed with vat dyes is added to give the desired intensity of color. This is obtained by mixing it with the corresponding leuco compd. soln. followed by oxidation in an acid medium. MeKosch

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UKHANOVA, Z. V.

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Synthetic fiber. E. A. Karil'chikov, N. V. Mikhailov, Z. V. Okhanova, and E. A. Isaeva. U.S.P. 3,810,728, Jan. 22, 1974. Addn. to U.S.P. 3,810,728. For the purpose of improving the physico-mech. properties, the fibers to the spinning zone are added reaction products of protein with acrylonitrile sol. in methylformamide. The fibers are plasticized, drawn, and finished in the usual manner.

M. Hosh

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MIKHAYLOV, N.V.; UKHANOVA, Z.V.; KARETINA, T.I.

Investigating solutions of polymer mixtures and factors determining their stability. Khim.volok. no.3:18-22 '59.

(MIRA 12:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (VNIIV).

(Polymers)

S/183/60/000/005/007/007  
B028/B054

AUTHORS: Demina, N. V., Gorbacheva, V. O., Kotina, V. Ye.,  
Ukhanova, Z. V.

TITLE: Properties of Chemical Fibers

PERIODICAL: Khimicheskiye volokna, 1960, No. 5, pp. 40-41

TEXT: This paper describes testing methods for chemical fibers. All mechanical properties of fibers were tested at an air moisture of 65±1% and an air temperature of 20±2°. The following testing methods are indicated: 1) Control of stability and elongation of threads on pendulum-type tensile-testing machines at a distance of 500 mm between the strainers and an average time until breaking of 15 sec. ГОСТ 6611-55 (GOST 6611-55). Impact tensile-testing machines were used for staple fibers. 2) The deformation (expansion) modulus was determined from the ratio between load and relative deformation for threads elongated by 3%. 3) Elasticity of threads was tested by a dynamometer. Threads were stretched by 4% and 10% of their original length, left in this state for one minute, and relaxed for one minute; the remaining elongation was measured.

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## Properties of Chemical Fibers

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4) The shearing modulus was checked by torsional vibrations with a KM-20 (KM-20) pendulum-disk device. 5) Bending-stress durability was tested with a АП-15 (DP-15) device at 110 cycles per minute and a stress of  $5 \text{ kg/mm}^2$ . A "Sinus" device was used for elementary fibers at a stress of  $10 \text{ kg/mm}^2$ . 6) Wear resistance was tested by grinding a thread until breaking on a corundum disk at 160 rpm. 7) Stability to ultraviolet light was determined by 20 hours' irradiation with a ПРК-2 (PRK-2) mercury vapor lamp. 8) The elasticity of the fiber mass was tested in a cylinder by volume change under a load of 70 kg for 60 min. Relaxation lasted 30 min; the remaining volume was measured. 9) Moisture content of the fiber by absolute drying in a drying chamber at  $105-110^\circ\text{C}$  (chlorine fibers at  $70^\circ\text{C}$ ). The material had been previously stored for some time at an air moisture of 65% and a temperature of  $20 \pm 2^\circ\text{C}$ . Data are given in % referred to the total dry substance. 10) The specific heat was determined by an adiabatic calorimeter. 11) A differential thermal analysis yielded data on the temperature range of melts and crystallization. A table comprising 14 pages lists results and X-ray patterns of fibers of viscose, acetate cellulose, caprone, anide, enanth, pelargone, undecane, polyamides,

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Properties of Chemical Fibers

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polyesters, polyolefins, chlorine, polyphene, nitron, acrylonitrile, aceto-  
chlorine, and vinitrone. The laboratory assistants A. V. Poluyanov, T. I. Negin, and Ye. P. D'yakova cooperated in the investigations. There are 1 table and 6 Soviet references.

ASSOCIATION: VNIIV (All-Union Scientific Research Institute of Synthetic  
Fibers)

✓  
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Card 3/3

DEMINA, N.V.; GORBACHEVA, V.O.; KOTINA, V.Ye.; UKHANOVA, Z.V.

Properties of synthetic fibers. Khim.volok. no. 40-55 '60.  
(MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic)

UKHATIN, N.R.; uchitel' (g. Babushkin, Moskovskoy oblasti)

Green patrols. Biol. v shkole no.3:50-55 My-Je '60.

(MIRA 13:7)

(Babushkin--Plants, Protection of)

Ukhator, V.

~~SECRET~~  
[Faint, mostly illegible text, possibly a classification marking or header]

UKHATOV, V. (Kaliningrad); MARTYNOV, L.; GOLOVCHENKO, V.; BEZMENOV, V.  
(Komsomol'sk-na-Amure); GETMANENKO, V.; TSVETKOV, N. (g. Kalinin)  
Bezuglov, P.; BORODAVKIN, S. (Leningrad)

Readers' letters. Poch. delo 7 no. 1:31-32 Ja '60.

(MIRA 14:2)

1. Zamestitel' predsedatelya soveta obrovol'nogo pozharnogo  
obshchestva, Rostov-na-Donu (for Martynov). 2. Rayonnyy  
pozharnyy inspektor, Kasimov, Ryazanskaya oblast' (for  
Golovchenko). 3. Starshiy master pozharno-ispytatel'noy  
stantsii, Novosibirsk (for Getmanenko).  
(Fire prevention)

UKHIN, A. F., Prof.

Psoriasis:

Phenomenon of repression of isomorphous reaction in psoriasis. Vest  
ven. i dermat., no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Unclassified.

DROZDOV, V.V., kandidat meditsinskikh nauk; POPOVA, N.V.; UKHIN, A.F., profesor, direktor.

Precipitin reaction in psoriasis; preliminary communication. Vest.ver.1  
derm. no.2:10-15 Mr-Apr '53. (MLRA 6:5)

1. Klinika koshnykh a venericheskikh boleznei Saratovskogo meditsinskogo  
instituta. (Psoriasis)

UKHIN, A.F., prof.; FAYN, A.E., kand.med.nauk

Lesions of the mucous membranes of the urethra and urinary bladder  
in psoriasis [with summary in English]. Vest.derm. i ven. 32 no.  
1:32-34 Ja-F '58. (MIRA 11:4)

1. Iz Saratovskogo oblastnogo kozhno-venerologicheskogo dispansera  
(glavnyy vrach Ye.A.Kalyagin) i kliniki kozhnykh i venericheskikh  
bolezney Saratovskogo meditsinskogo instituta (dir.-prof. A.F.Ukhin)

(PSORIASIS, pathol.

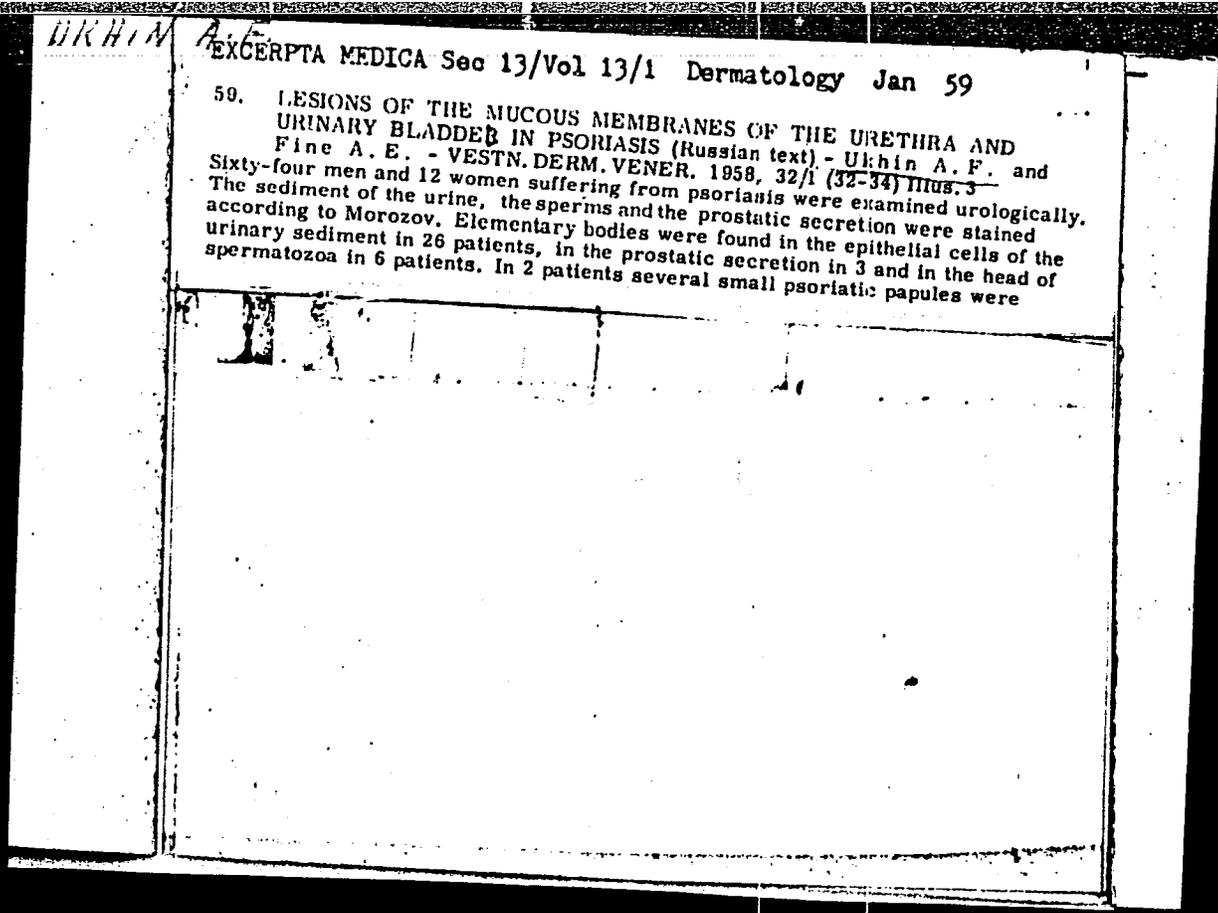
mucous membrane of bladder & urethra (Rus)

(BLADDER, pathol.

lesions of mucous membrane in psoriasis (Rus)

(URETHRA, pathol.

same)



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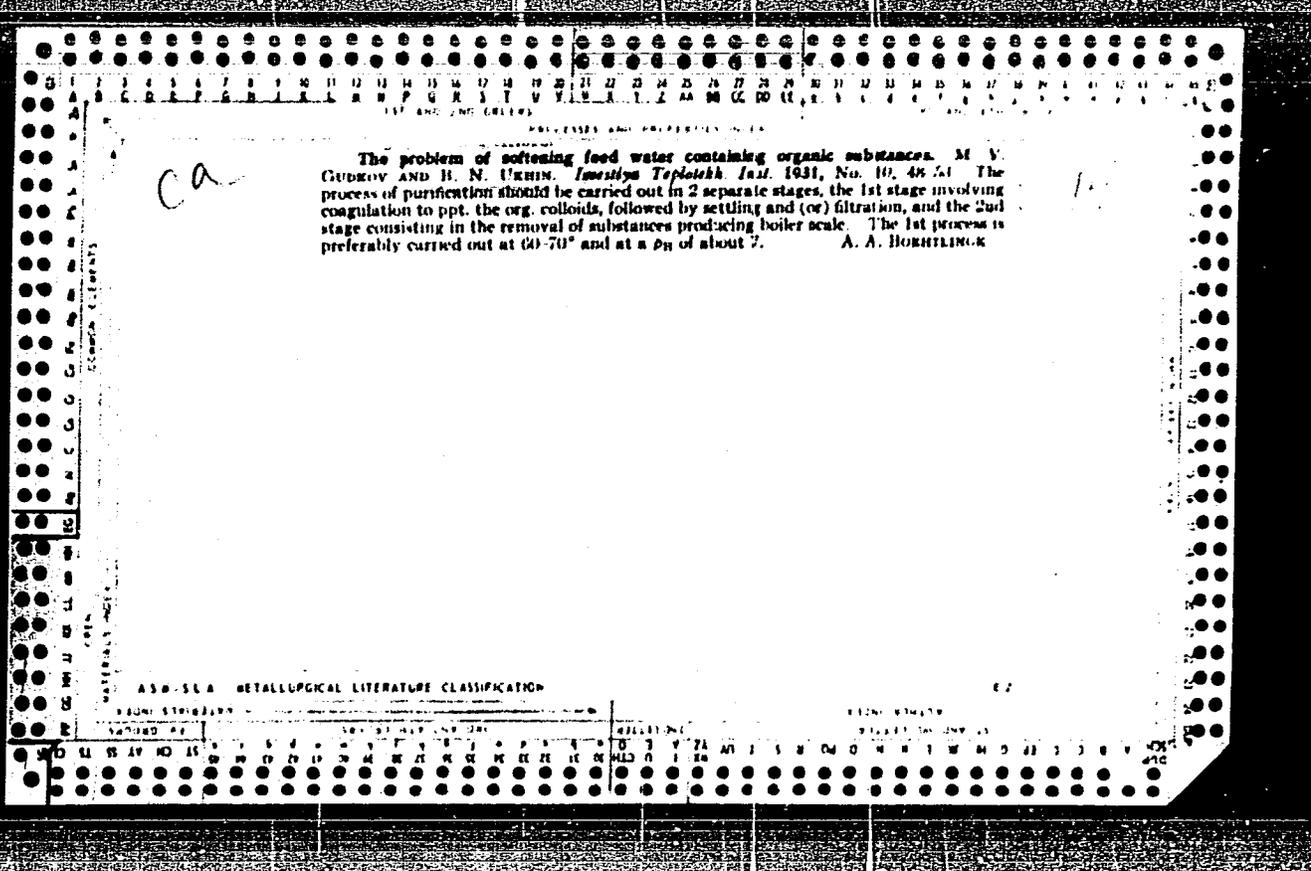
revealed on the mucous membrane of the urethra. Cystoscopy revealed psoriatic scales on the mucous membrane of the bladder in 2 patients. In all of them elementary bodies were discovered in the epithelial cells of the urinary tract. The authors conclude that psoriasis may affect the mucous membrane of the urinary tract.

Kraus - Hradec Králové

SHVETSOVA, V.P., inzh.; UKHIN, B.N., inzh.

Use of the AV-16G anion exchanger in water treating systems.  
Teploenergetika 12 no.10:28-31 0 '65. (MIRA 18:10)

1. Vostochnyy filial Vsesoyuznogo teploekhnicheskogo instituta,  
Chelyabinsk, i Chelyabenergo.



UKHIN, B. N.

POLYAKOVA, V. P. AND UKHIN, B. N. Standardizing Selection and Portioning of Coal Samples at Electric Power Plants (O Standartizatsii Skhemy Otbora i Razdelki Prob Uglya na Elektrostantsiyakh), pp. 13-15

A description of a standard sampling installation for selection of coal portions at a large unnamed electric power plant is given. (Drawings and table).

SO: ELECTRICHESKIYE STANTSII, No. 12, Dec. 1952, Moscow (1614306)

UKHIM, B. M.

Air Filters

Preliminary Results of the use of a separator filter  
for steel filings. Elek. sta., 23, No. 2, 1952

Inzh.

SO: Monthly List of Russian Accessions, Library of Congress, April 1952 ~~1951~~, Uncl.

SABINOVSKIY, D. A.; URIN, B. N.; GURICH, G. P.

Feed Water Purification

Bubbling in deaerators of feed water.  
Elek. Sta., 23, No. 4, 1952.  
Inzh. Sverdlovenergo

SO: Monthly List of Russian Accessions, Library of Congress, August 1952 ~~1951~~, Uncl.

1. POLYAKOVA, V. P.: UKHIN, B. N.
2. USSR (600)
4. Electric Power Plants
7. Standardizing coal sampling schemes at electric power plants. Elek.sta., 23, no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ORHIN, B.N.

**U S S R .**

✓ 3479. OPERATION OF LMZ-200 SECTIONAL BOILERS WITH STAGGERED CYCLONES.  
Dzyutr, G.D. and Ushin, P.M. (Elektr. Sta. (Par. Sta., Moscow), Oct. 1951,  
vol. 25, 7-11). Reconstruction of the separating equipment of sectional  
boilers and the installation of staggered sections for the second stage of  
evaporation resulted in an improvement in the quality of steam emitted by the  
boilers, raising their evaporating value to 10-15% above the rated. Under  
thermal station conditions the evaporating value of the boiler plant was able  
to be increased by 60 t/h. Since the alterations the boilers have been  
operating efficiently for over a year at loads of 120-200 t/h.

B.E.A.

UKHIN, B.N.

IVANOV, B.G., instructor; UKHIN, B.N., instructor.

Experimental operation of a high-pressure boiler having a steam washing installation [with summary in English]. *Teploenergetika* no. 3:42-47, 1957. (MIRA 10:9)

1. *Содержание*. *Содержание*

UKHIN, B.N.

104-4-5/40  
Engineers.

AUTHOR: Malyarshchikova G.V., and Ukhin, B.N.,  
TITLE: Supply circuits for high pressure boilers equipped with steam washing devices. (O skhemakh pitaniya kotlov vysokogo davleniya oborudovannykh paropromyvochnymi ustroystvami)

PERIODICAL: "Elektricheskie Stantsii" (Power Stations), 1957, Vol. 28, No4, pp. 16 - 18 (U.S.S.R.)

ABSTRACT: In the first years of operation of a power station there was great difficulty in producing steam of satisfactory quality. This restricted the output of the boilers and silica deposits were formed on the flow parts of the turbines so that they often had to be cleaned. During 1952 - 1955, bubbling devices for washing steam with feed water, in a manner which has been described in the literature, were designed, erected and tested on all types of boiler installed in the power station. This article describes the results of the tests which are presented in the form of tables. The installation of steam washing, combined with the removal of silica from the purified feed water resulted in considerable improvement in the quality of the steam, silica deposits in the turbines were reduced and thermal losses were smaller. The method of feeding the first stage boilers (type ПК-10 without stepwise evaporation) with condensate and the second

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Supply circuits for high pressure boilers equipped with steam washing devices. (Cont.)

104-4-5/40

stage boilers (type NK-14 with stepwise evaporation) with a mixture of condensate and purified feed water from which the silica had been removed was fully justified. With this method of operation part of the evaporator installation working on reduced steam became unnecessary and the efficiency of the power station was improved. Operational tests and tests with separate supply to the boilers type NK-14 show that it is possible to produce steam with a content of  $0.02 \text{ mg/l SiO}_2$ . The boiler can then operate on boiler water containing salt and silica concentrations 2 - 3 times higher than when separate feed is not used, and blow down is reduced. The circuit of separate supply for high pressure boilers equipped with steam washing and stepwise evaporation may be applied in power stations using large additions of purified water from which the silica has been removed and also in those using smaller additions of purified water (if the silica is not removed) when the silica content of the purified water is 5 - 10 mg/litre  $\text{SiO}_2$ . It is then unnecessary to use evaporator installations. For separate supply it is necessary to install feed pumps with an output of 100 m<sup>3</sup>/hour at a pressure that depends on the boiler pressure.

UKHIN, B.N.

KVYATKOVSKIY, V.M., inzhener; UKHIN, B.N., inzhener.

Device for dry batching and hydraulic feeding of caustic magnesite.  
Elek. sta. 28 no. 5:69-71 My '57. (MLBA 10:6)  
(Boilers) (Hoppers)

~~UKHIN, B.N.~~ UKHIN, B.N.

IVANOV, B.G., inzhener; UKHIN, B.N., inzhener.

Experience operating high-pressure boilers equipped with bubbling  
steam washing. Elek.sta. 28 no.8:68 Ag '57. (MIRA 10:10)  
(Boilers)

UKHIN, B. N.

SOV/96-58-9-13/21

**AUTHORS:** Kvyatkovskiy, V.M. (Candidate of Technical Science) and Ukhin, B.N. (Engineer)

**TITLE:** The use of Hydro-elevators to deliver Reagents to the Clarifiers of Water-purification Installations  
(Primeneniye gidro-elevatorov dlya podachi reagentov v osvetliteli vodoochistitel'nykh ustanovok)

**PERIODICAL:** Teploenergetika, 1958, <sup>vol. 5</sup> Nr 9, pp 64 - 67 (USSR)

**ABSTRACT:** With the usual arrangement of preliminary water-purification plant, the water distributors and reagent measurement equipment are located on the fourth and third floors of the water-purification building. This makes the structure expensive and operation becomes complicated. The difficulty can be overcome by having the reagent measurement equipment near the ground floor. Measuring equipment that can work against a head of pressure is not yet being produced but operating conditions can be improved, even now. The layout of the preliminary water-treatment plant at a particular power station is then criticised. The original reagent measuring devices were unsatisfactory and were replaced by the device illustrated in Fig 1, which is used to measure the quantity of lime water. This type of measuring device is suitable when the plant is manually

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SOV/96-58-9-13/21

The Use of Hydro-elevators to deliver Reagents to the Clarifiers of Water-purification Installations

controlled. A number of other changes were made in the plant which made it easier to operate. However, the measurement of lime and coagulant was very laborious because the equipment was on a different floor from the control panels and communications between the two were poor. It was decided to apply hydraulic lifting to the lime and coagulant solutions. For this purpose the measuring equipment and storage tanks were moved to the first floor of the building near to the regular work-place. The construction of the hydro-elevators, illustrated in Fig 2, permits of quick and easy replacement of working parts. All the working parts are made of stainless steel; the coagulant solution is ejected by untreated water and the lime solution by clarified water. The new arrangement of the equipment is shown in Fig 3 and is described. The reagent delivery pipes are about 30 m long and each has an air separator. The new equipment has proved very reliable and less power is required for pumping solutions. The hydro-elevators have

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SOV/96-58-9-13/21

The Use of Hydro-elevators to deliver Reagents to the Clarifiers  
of Water-purification Installations

to be cleaned out once or twice a month and the delivery pipes from the hydro elevators to the air separators require acid cleaning once every three months. These tasks take three and eight man-hours respectively. A possible method of automatic control of lime solution delivery is illustrated schematically in Fig 4. Installations of the type described have now been made at three power stations and their use is recommended.

There are 4 figures, 1 table, no literature references

ASSOCIATIONS: Vsesoyuznyy teplotekhnicheskiy institute (All-Union Thermo-Technical Institute) and Sverdlovenergo

1. Industrial plants--USSR
2. Water--Purification
3. Reagents
- Transportation
4. Elevators--Applications

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SOV/91-59-10-9/29

8(6); 28(1)

AUTHORS: Ivantsov V.A. and Levich A.A., Engineers and Ukhin B.M.  
Chief of the Chemical Department

TITLE: Automatic Filling of Expenditure Tanks with Phosphates

PERIODICAL: Energetik, 1959, Nr. 10, pp 18-20, (USSR)

ABSTRACT: At the Nizhne-Turinskaya GRES, a phosphate solution is prepared in the department for chemical purifying of water. The solution is prepared in an installation consisting of a dissolving tank, into which chemically pure water and steam are fed, a coke filter, and two tanks for keeping the ready solution. For mixing the solution, pumping it into spare tanks and filling two expenditure tanks in the boiler room, two centrifugal pumps are used. The pipeline length from the spare tanks to the boiler room is about 320 m. Two workmen, one at the expenditure tanks and another at the pump, were required to operate the feed line. The Chief of the TsSTI "Sverdlovennergo", D.P. Larionov, proposed automation of the expenditure tank filling process by using a layout requiring a minimum quantity of cable (Fig. 1). For this purpose, a dif-

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SOV/91-59-10-9/29

Automatic Filling of Expenditure Tanks with Phosphates

ferential manometer, measuring diaphragm and a check valve were mounted at the feed pipe near the pump, while during each expenditure tank a level regulator, connected with a float, was installed. The latter was adjusted in such a way that when the tank became filled, the valve closed, and with the minimum level - it was fully open. Electric layout of the installation is shown in Fig. 2. When the valve is open, a constant pressure drop of 400 mm mercury column is created. Then, the differential manometer contacts will close the 24 volts relay circuit, which, in turn, will close the 220 volts subsidiary loop operating the starting coil, and the electric motor (pump) will work until the tanks are filled. Automation of expenditure tanks filling has spared labor by saving 2 workers. Only 30 m of cable were required for the new installation. It has been in operation since the end of 1957, and its functioning is highly satisfactory. The maintenance consists of a preventive inspection 1-2 times a month. There are 2 diagrams.

Card 2/2

DASHKINA, R.I., inzh.; UKHIN, B.N., inzh.; IVANOV, V.S., inzh.;  
MIRZOJEVA, Ye.A., inzh.

Stabilization of turbine oils under operating conditions.  
Elek. sta. 31 no.12:41-44 D '60. (MIRA 14:5)  
(Turbines--Lubrication)  
(Lubrication and lubricants)

LOGINOV, A.D., master; UKHIN, B.N., insh.

Improving hydraulic drives of the closing accessories of  
water purifying plants. Energetik 8 no.1:14-15 Ja '60.  
(MIRA 13:5)

(Water--Purification)

(Water-supply engineering--Equipment and supplies)

LEVICH, A.A. (Nizhnyaya Tura); UKHIN, B.N. (Nizhnyaya Tura)

Automation of the proportioning of reagents at water supply  
stations. Vod. i san. tekhn. no.10:31-32 O '61.

(MIRA 14:11)

(Water Purification)

UKHIN, B.N., inzh.

Phosphate-free operation of high-pressure boilers. Teploenergetika  
11 no.10:16-18 0 '64. (MIRA 18:3)

1. Chelyabenergo.

UKHIN, I. I.

BARSUKOV, N.I., kand.sel'skokhozyaystvennykh nauk; KIZYURIN, A.D., doktor sel'skokhozyaystvennykh nauk; BORINEVICH, V.A., kand.sel'skokhozyaystvennykh nauk; BORMUSOVA, S.H., agronom; VERMENCHIEVA, M.D., kand.sel'skokhozyaystvennykh nauk; GMSHELE, E.E., doktor biol. nauk; GOROKHOV, G.I., kand.sel'skokhozyaystvennykh nauk; GUBKIN, S.M., kand. veterinarnykh nauk; YELYKOVA, L.I., kand.sel'skokhozyaystvennykh nauk; KOTT, S.V., doktor biol. nauk; KOCHKINA, V.A., agronom; LAMBIN, A.Z., doktor biol.nauk; LEBMEDEVA, Ye.M., agronom; MALAKHOVSKIY, A.Ya., doktor sel'skokhozyaystvennykh nauk; MAYBORODA, M.M., kand. sel'skokhozyaystvennykh nauk; MAYDANYUK, A.E., zootekhnik; OVSYANNIKOV, G.Ye., kand.sel'skokhozyaystvennykh nauk; PETROV, F.A., kand.biol.nauk; POGORELOV, P.F., agronom; POLKOSHNIKOV, M.G., dotsent; RENARD, G.K., kand. sel'skokhozyaystvennykh nauk; RUGHKIN, V.N., prof.; SADYRIN, M.M., kand.sel'skokhozyaystvennykh nauk; TOBOL'SKIY, V.YA., vetvrach; TYAZHEL'NIKOV, S.D., kand.sel'skokhozyaystvennykh nauk; UKHIN, I.I., kand.sel'skokhozyaystvennykh nauk; FEDOROV, G.V., kand.sel'skokhozyaystvennykh nauk; CHIRKOV, D.I., zootekhnik; TSINGOVATOV, V.A., prof.; SHVETSOVA, A.N., kand.sel'skokhozyaystvennykh nauk; SHEVLYAGIN, A.I., kand.sel'skokhozyaystvennykh nauk; SEMENOVSKIY, A.A., red.; GOLUBINSKAYA, Ye.S., red.; NECHAYEVA, Ye.G., red.; PERESYPKINA, Z.D., tekhnicheskii red.

[Siberian agronomist's reference manual] Spravochnaia kniga agronoma Sibiri. Moskva, Gos. izd-vo sel'khoz. lit-ry, Vol.2. 1957. 839 p.  
(Siberia--Agriculture) (MIRA 11:3)

UKHIN, I.I., kandidat sel'skokhozyaystvennykh nauk.

Prepare efficient specialists. Nauka i pered.op.v sel'khoz.7 no.1:  
28-30 Ja '57. (MLRA 10:2)

(Agricultural education)

SEREBRENIKOV, V.N.; PETROV, F.A.; FEDYUSHIN, A.V.; UKHIN, I.I.;  
MAKARENKOV, Ya.P.

Anniversaries. Zhivotnovodstvo 23 no.3:88 Mr '61. (MIRA 17:1)

SLADKOV, A.M.; UKHIN, L.Yu.

Preparation of bromoacetylenes and acetylenic nitriles. Izv.AN  
SSSR.Ser.khim. no.2:392-393 F '64. (MIRA 17:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

SLADKOV, A.M.; UKHIN, L.Yu.; KORSHAK, V.V.

Reaction of copper acetylides with halogen compounds.  
Izv. AN SSSR. Ser. khim. no.12:2213-2215 D '63.  
(MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

GORSHKOVA, G.N.; CHUBAROVA, M.A.; UKHIN, L.Yu.; SLADKOV, A.M.;  
KASATOCHKIN, V.I.

Infrared and ultraviolet absorption spectra of substituted  
diphenylacetylenes. Zhur. fiz. khim. 38 no.10:2485-2487  
0 '64. (MIRA 18:2)

1. Institut goryuchikh iskopayemykh AN SSSR.

GORSHKOVA, G.N.; CHUBAROVA, M.A.; SLADKOV, A.M.; UKHIN, L.Yu.; KASATOCHKIN, V.I.

Infrared and ultraviolet absorption spectra of substituted ethynylbenzenes and diethynylbenzenes. Zhur. fiz. khim. 38 no 10-2513-2516 0 '64.

Infrared and ultraviolet absorption spectra of substituted diphenylbutadiynes. Ibid.:2516-2520

(MIRA 18:2)

1. Institut goryuchikh iskopayemykh Instituta elementorganičeskikh sovedineniy AN SSSR.

SLADKOV, A.M.; UKHIN, L.Yu.; GORSHKOVA, G.N.; CHUBAROVA, M.A.; MAKHSUMOV, A.G.;  
KASATOCHKIN, V.I.

Synthesis and spectra of iodo and bromoacetylene derivatives.  
Zhur.org.khim. 1 no.3:415-421 Mr '65. (MIRA 18:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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L 05702-67 EWP(s)/EAT(m)/T/EWP(v) IJF(c) RM/DS/WW  
ACC NR: AP6026355

SOURCE CODE: UR/0237/66/000/005/0027/0030

AUTHOR: Sidoravichyus, I.; Levina, F. A.; Rybalko, G. I.; Sladkov, A. M.; Myl'nikov, V. S.; Kudryavtsev, Yu. P.; Ukhin, L. Yu.

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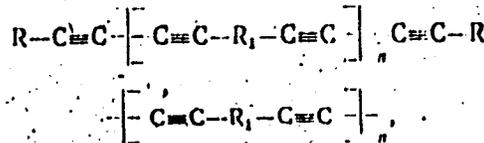
ORG: none

TITLE: Electrophotographic layers with photoconducting acetylenic polymeric compounds

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 5, 1966, 27-30

TOPIC TAGS: electrophotography, organic semiconductor, semiconducting polymer, copper compound, acetylene compound

ABSTRACT: The article reviews reported studies of new electrophotographic layers. Semiconducting organic polymeric compounds containing triple bonds in the conjugation chain (polyynes) have been found to display a high photoelectric sensitivity and very short times of photoeffect relaxation. The structure of these compounds is



Card 1/3

UDC: 772.93



L 05702-67

ACC NR: AP6026355

pared from them. Authors are sincerely grateful to Academician A. N. Terenin for supervising the work. Orig. art. has: 1 table.

SUB CODE: 14/ SUBM DATE: 01Nov65/ ORIG REF: 010/ OTH REF: 015

*Card*  
Card 3/3

MAJEDOV, R.A.; UKHIN, N.A.

Methods for measuring stationary processes in semiconductor devices  
in a linear electron accelerator. Izv. AN Azerb. SSR, Ser. fiz.-  
tekh. i mat. nauk, no.2:68-73 '65. (MIRA 18:8)

UKHIN, N.A.

Voltage stabilizers equipped with semiconductor triodes.  
Poluprov.prib. 1 ikh prim. no.3:175-195 '58. (MIRA 12:4)  
(Voltage regulators)  
(Transistors)

ACCESSION NR: AR3010248

S/0275/63/000/008/V002/V002

SOURCE: RZh. Elektronika i yeye primeneniye, Abs. 8V10

AUTHOR: Ukhin, N. A.

TITLE: Output cascade for a counter

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektronike, 1961, M., Gosatomizdat, 1962, 123-126

TOPIC TAGS: counter output cascade, counter

TRANSLATION: For purposes of electrical power economy it is proposed to replace the tubes of the output channels of multichannel time selectors (e.g., a 110-channel selector, type VS-110) with cascades made of three transistors and six semiconductor diodes. The schematic and a description of the circuit are given. The cascade works on pulses of  $>0.3$  microsec duration. The time delay is 8 to 10 msec and the resolution time, together with the mechanical counter, is 15 to 20 msec. During rest the circuit uses less than 0.2 watt. G. I.

DATE ACQ: 07Sep63

SUB CODE: GE

ENCL: 00

Card 1/1

UKHIN, P.N.

Magnitude of the photocurrent in the circuit of the photocell  
in the absence of the soundtrack. Trudy LIKI no. 5:15-20 '59.  
(MIRA 13:12)

1. Kafedra tekhnicheskoy elektrotehniki Leningradskogo instituta  
kinoinzhenеров.  
(Sound--Recording and reproducing) (Photoelectric cells)

UKHIN, P.N.

Spectra characteristics of photographic sound tracks. Trudy  
LIKI no. 5:21-26 '59. (MIRA 13:12)

1. Kafedra tekhnicheskoy elektroniki Leningradskogo instituta  
kinoinzhenerov.  
(Sound--Recording and reproducing)

UKHIN, P.N.

Ray flux on the cathode of the photocell in the presence of  
a sound track. Trudy LIKI no. 5:27-33 '59. (MIRA 13:12)

1. Kafedra tekhnicheskoy elektroniki Leningradskogo instituta  
kinoinshtenerov.

(Sound--Recording and reproducing) (Photographic cells)

GORELOVA, Gertruda Isaakovna; REMIZOV, Viktor Ivanovich; UKHIN,  
Pavel Nikolayevich; FOMIN, A.A., red.; REZNIK, A.A.,  
tekh. red.

[Principles of radio engineering and radio-television  
systems] Osnovy radiotekhniki i kinoradioustanovki. Mo-  
skva, Izd-vo "Iskusstvo," 1963. 294 p. (MIRA 16:11)  
(Radio) (Television)

UKHIN, Pavel Nikolayevich; BOGATOVA, V., red.; PODSHEBYAKIN, I.,  
tekh. red.

[Safety measures in motion-picture enterprises] Tekhnika bez-  
opasnosti na kinopredpriatiakh. Moskva, Izd-vo "Iskusstvo"  
1962. 317 p. (MIRA 15:10)  
(Industrial hygiene) (Fire prevention)  
(Motion-picture industry—Safety measures)

RATNER, Ye.I.; UKHINA, S.F.

Transformation of amino acids absorbed from the outside  
in the roots of corn. Fiziol. rast. 10 no.4:393-399 J1-Ag '63.  
(MIRA 16:8)

1. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy  
of Sciences, Moscow.

RATNER, Ye.I.; SMIRNOV, A.M.; KHUAN KHUN-SHU [Huang Hung-shu]; UKHINA, S.F.;  
KUZOVKINA, I.N.

Assimilation of amino acids as a source of nitrogen by isolated alfalfa  
roots and by entire pea plants in sterile cultures. Fiziol. rast. 10 no.  
6:673-681 N-D '63. (MIRA 17:1)

1. K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of  
Sciences, Moscow.

KIRDAN, Ivan Lukich; UKOLOV, D.P., inzh., retsenzent; UKHIN,  
S.I., inzh., retsenzent; GORYANSKIY, Yu.V., nauchn.  
red. TURANDINA, L.A., red.

[Knotting and splicing in shipbuilding] Takelazhnye ra-  
boty v sudostroenii. Leningrad, "Sudostroenie," 1964.  
(MIRA 18:1)  
303 p.

UKHINOV, V.A.; SAMSONOV, V.G.

[Plastics as material to be used in the manufacture of machinery] Plastmassy - material dlia mashinostroenia. Donets, Donetskoe knizhnoe izd-vo, 1962. 41 p.

(MIRA 16:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut plastmass (for both).

(Plastics) (Machinery industry)

AGAFONOV, S.L.; ALEKSEYEVA, A.N.; BELLYUSTINA, L.N.; GOLOV, I.I.;  
GUSEV, O.V.; DMITRIYEVA, V.I.; YEVLAMPIYEVA, F.A.;  
YELISEYEV, A.I.; ZHAVORONKOV, N.A.; ZHARKOV, S.A.;  
KIR'YANOV, I.A.; KRAYNOV, L.A.; KUSTOV, K.L.; LEV, F.A.;  
LIPATOV, N.A.; LIPOVETSKIY, I.A.; MALYUGIN, V.N.; MARINOV,  
N.N.[deceased]; MIKHAYLOV, A.N.; POTAPOVA, Ye.D.;  
TRUKHMANOV, G.A.; UKHIN, V.A.; FILIPPOV, V.A.; CHEBURASHKIN,  
A.M.; SHKOTOV, A.T.; GARANINA, L.F., kand. fil. nauk

[The city of Gorkiy; a guidebook] Gorod Gor'kii, Volgo-  
Viatskoe knizhnoe izd-vo, 1964. 374 p. (MIRA 17:12)

KOLOSOV, I.I.; UKHINA, S.F.; OPARIN, A.I., akademik.

Nutrition and water supply of the main and lateral shoots of cereal plants  
by various types of roots. Dokl. AN SSSR 91 no.2:413-416 JI '53.  
(MLRA 6:6)

1. Institut fiziologii rastenii im. K.A. Timiryazeva Akademii nauk SSSR.
2. Akademiya nauk SSSR (for Oparin). (Roots (Botany)) (Grain)

KOLOSOV, I. I.; UKHINA, S. F.

Role of the root system in the assimilation of mineral substances  
by plants. *Fiziol.rast.* 1 no.1:37-46 S-0 '54. (MLRA 8:10)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva Akad.nauk  
SSSR, Moscow.

(Plants--Assimilation) (Roots (Botany))

USSR/Plant Physiology. Mineral Nutrition

I-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 29390

Author : Ratner E.I., Kolosov I.I., Ukhina S.F., Dobrokhotova  
I.N., Kazuto O.N.

Inst : Not Given

Title : The Assimilation by Plants of Aminoacids as a Source  
of Nitrogen

Orig Pub : Izv. AN SSSR, ser. biol., 1956, No 6, 64-82

Abstract : Experiments on corn and sunflower were carried out  
in sterile cultures in the Institute of Plant Physio-  
logy of the Union of Soviet Socialist Republics by the  
method of Shulov as modified by Feodorov. Glycoccl,  
aspartic and glutamic acids, and arginine were assimu-  
lated by corn and sunflower plants but their effective-  
ness was considerably lower than the effectiveness of  
mineral Nitrogen. Lysine, alanine, tyrosine and guan-  
ine were assimilated by the corn plants but little.

Card : 1/2

USSR/Plant Physiology. Mineral Nutrition

I-3

Abs Jour : Fef Zhur - Biol., No 7, 1958, No 29390

Phenylalaline was toxic to corn, and in small concentrations after the use of N nitrate had a building effect (the formation of side shoots at the stem base and of a large number of underdeveloped cobs). Aspartic and glutamic acids stimulated the development of roots. It was shown by radioautochromatographic analysis that the roots of plants were able to assimilate amino-acids as whole molecules, and that glycoool was quickly worked over in the roots while thyrozine remained unchanged. Corn plant analysis demonstrated that glycoool, and aspartic and glutaminic acids were decomposed in the roots, and ammonia gas was separated.

Card : 2/2

RATNER, Ye.I.; AKIMOCHKINA, T.A.; UKHINA, S.F.

Paths and mechanism of the movement of mineral substances from roots to the aerial organs of plants as exemplified by the translocation of P<sup>32</sup> [with summary in English]. Fiziol.rast. 6 no.1:3-12 Ja-F '59.  
(MIRA 12:2)

1. K.A. Timiryazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.  
(Plants, Motion of fluids in)

RATNER, Ye.I.; UKHINA, S.F.

Root metabolism as related to the absorption and assimilation of amino acids by plants. Izv. AN SSSR. Ser.biol. no.6:865-877  
N-D '61. (MIRA 14:11)

1. Institute of Plant Physiology, Academy of Sciences of the U.S.S.R., Moscow.  
(PLANTS—METABOLISM) (AMINO ACIDS) (ROOTS (BOTANY))

RATNER, Ye.I.; UKHINA, S.F.

Some characteristics of the metabolism of nitrogenous substances  
in the roots of various plants as exemplified by the assimilation  
of exogenous amino acids. Fiziol. rast. 12 no.5:814-824 S-0 '65.  
(MIRA 19:1)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

1ST AND 2ND INDEX

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH INDEX

*Eu*

Recovering camel-hair wool. S. S. Moleson, M. L. Akhina-Krudova and I. M. Kinzelovskii. Russ. 46,620, April 30, 1959. Worn belting of camel hair and cotton is treated with acid to carbonize vegetable admixtures and then treated with a soln. of 0.2-0.5% KOH in the cold.

25

COMMON ELEMENTS

COMMON ELEMENTS

ASNT-51A METALLURGICAL LITERATURE CLASSIFICATION

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50TH INDEX

UKHINOV, V.

New polymers and their use in the manufacture of machinery.  
Mashinostroitel' no.9:40-41 S 162. (MIRA 15:9)

1. Direktor instituta UkrNIIPlastmass.  
(Polymers)

L 22744-66 EWT(m)/EWP(j) IJP(c) RM

ACC NR: AP6006353 (A)

SOURCE CODE: UR/0413/66/000/002/0023/0093

AUTHOR: Kamenskiy, I. V.; Lapitskiy, V. A.; Ukhinov, V. A.; Lomov, Yu. M.; Itinskiy, V. I.

ORG: none

TITLE: Modification of rubber. Class 39, No. 178093<sup>5</sup>

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 93

TOPIC TAGS: rubber, chemical resistant material, furan resin, thermomechanical property,

ABSTRACT: This Author Certificate describes a method for modifying rubber by combining it with resins. To raise both the thermal and chemical resistance of the final product, the use of a resin of the furan series containing an ionic-type catalyst is suggested. The reaction mixture is subjected to thermal treatment at 80--200C. Organic sulfonic acids, metal chlorides and mineral acids are proposed for use as catalysts.

[LD]

SUB CODE: 11/

SUBM DATE: 23Jan63

Card 1/1 *over*

UDC: 678.046.7:547.724.1

*46  
B*

UKHLOV, V.V.

Wood-fiber plastics as substitutes for non-ferrous metals.  
Bum.prom. 29 no.6:19 Je '54. (MIRA 7:8)

1. Nachal'nik mekhanicheskogo tsekha bumashnoy fabriki  
"Lyaskelya".  
(Plastics)

OBLIUY, Yu. Obloj, J.]; UKHNYAT, M. [Uhnlat, M. [Nowakowska, M.]

Effect of the conditions of preparation of a catalytic system on the valency of vanadium in a complex and the copolymerization of ethylene with propylene. Vysokom. soed. 7 no.5:939-944 My '65. (MIRA 18:2)

1. Institut tyazhelogo organicheskogo sinteza, Blyakhovnya Silezskaya, Pol'sha.

NEHO, I.I., kand. tekhn. nauk; MOHACHEV, V.A., kand. tekhn. nauk;  
BOHISENKO, S.A., kand. tekhn. nauk; BOYSENCHENKO, A.M., kand.

Using the analytic method to estimate the complexity of operations for establishing standards for the number of workers attending mechanized processes at the mine surface. Sher. DonUGI  
no.32:128-L. 193, (1971: 17:10)

UKHOBOTIN, M.A., inzhener.

Thermal characteristics of the VPT-25-3 turbine installation  
manufactured by the Leningrad Metallurgical Plant. Teploener-  
getika 3 no.10:61 0 '56. (MLRA 9:11)  
(Steam turbines)

AID P - 5112

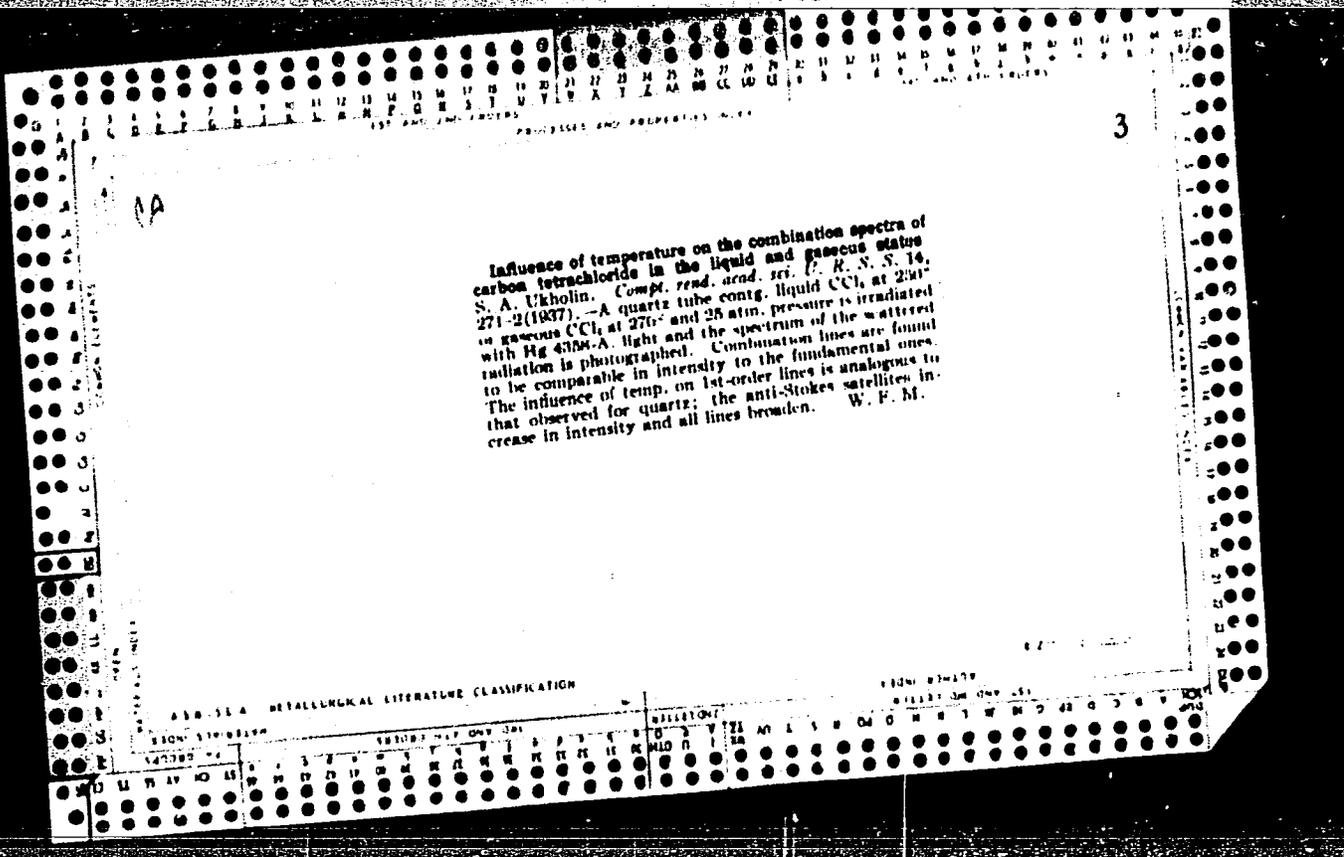
Subject : USSR/Engineering  
Card 1/1 Pub. 110-a - 15/18  
Author : Ukhobotin, M. A., Eng.  
Title : ~~Thermal characteristic of the Leningrad Metal Plant~~  
Thermal characteristic of the Leningrad Metal Plant  
(LMZ) turbine of the VPT-25-3 type. (Chronicle).  
Periodical : Teploenergetika, 10, 61, 0 1956  
Abstract : The results of tests, performed in 1953-1955, with  
three turbine units of the above type are described.  
2 tables.  
Institution : None  
Submitted : No date

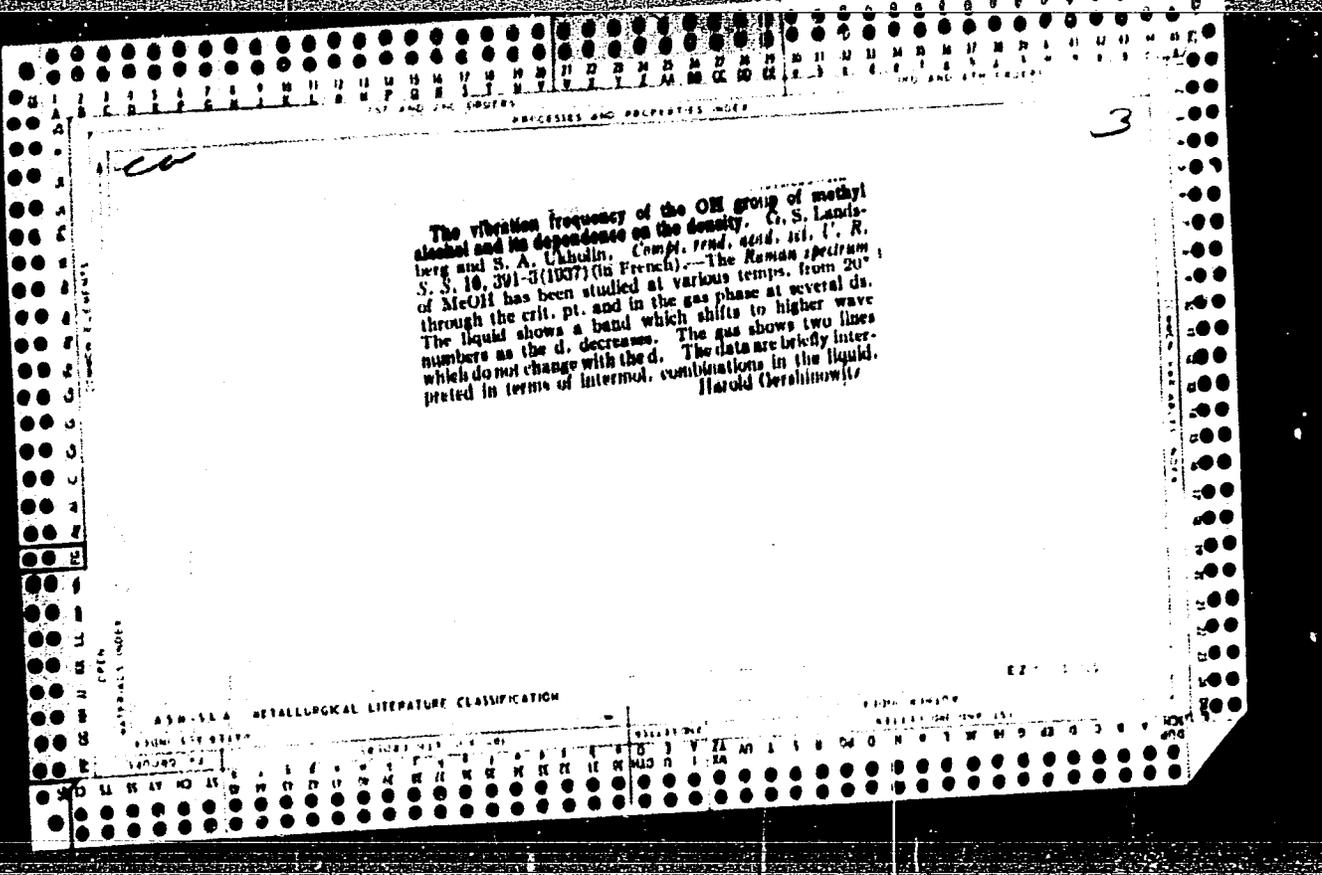
UKHOBOTOV, L.A.

Surgery of entropion and trichiasis. Vest.oft. 32 no.3:38-39 My-Je '53.  
(MLBA 6:8)

1. 2-ya gorodskaya L'vovskaya bol'nitsa.

(Eyelids--Diseases)





1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

PROCESSES AND PROPERTIES INDEX

3

Dependence of the combination spectrum of water on the density and on the pressure. S. A. L'khvlin. *Compt. rend. acad. sci. U. R. S. S.* 16, 395-8 (1937) (in French). -- The Raman spectrum of liquid H<sub>2</sub>O has been studied at various temps. up to the crit. pt. and that of the vapor at various pressures. The position of the band in the liquid shifts to higher frequencies as the d. is decreased. The nature of the shift is such that it does not confirm the structure of H<sub>2</sub>O proposed by Bernal and Fowler (C. J. Harold Gerstmanovskii 27, 5232).

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

CA

3

Optical investigation of hydrocarbons. V. Raman  
 spectra of some naphthenes and nonanes. P. A. Baz-  
 hulin, B. A. Likhodin, T. P. Bulanova, A. V. Koperina,  
 A. F. Plate, and B. A. Kazanskii. *Izv. Akad. Nauk*  
 S.S.S.R., *Udsk. Khim. Nash* 1969, 491-6; cf. C.A. 42,  
 6234c. --1,1-Dimethylcyclopentane (from oxidation of  
 3,3-dimethylcyclohexanol to the dimethyladipic acyl-  
 imid., which on ketonization and hydrazine cleavage gave  
 the product, bp 87-7.25°, n<sub>D</sub> 1.4183, d<sub>4</sub> 0.7518)  
 gives following difference frequencies (intensities in paren-  
 theses): 360(11), 397(1), 404(0), 502(20), 722(8.0), 817  
 (4), 811(2), 869(27), 912(1), 939(5.2), 954(8.2), 1041  
 (3.2), 1039(12.5), 1061(6.2), 1065(0), 1139(3), 1152(2.1),  
 1183(2), 1200(13), 1240(6), 1260(1), 1308(3), 1329(1),  
 1445(38), 1463(27), 2716(2), 2750(2), 2905(150), 2908  
 (152), 2933(180), 2958(180). 1-Methyl-3-propylcyclo-  
 pentane (by hydrogenation of 1-methyl-3-propyl-3-  
 cyclopentene; probably stereoisomer mix; bp 148.2-  
 8.4°, n<sub>D</sub> 1.4254, d<sub>4</sub> 0.7715): 280(2), 313(0.0), 326(0.0),  
 385(3.0), 424(0), 446(0), 530(1), 547(1), 608(0), 738(0),  
 787(0), 817(8), 832(15), 865(15), 894(5.6), 924(1),  
 953(1), 979(3), 1005(2), 1034(6.3), 1081(5.2), 1097(2),  
 1133(7.6), 1149(5), 1191(1), 1242(0), 1297(6.4), 1313(4),  
 1348(3.8), 1454(46), 2730(3), 2844(100), 2900(100),  
 2905(180), 2935(180), 2955(173). *trans*-1,2-Dimethyl-  
 cyclohexane (from MeMgI and methylcyclohexanone;  
 dehydration, hydrogenation and fractionation of isomers;  
 bp 123.5-3.7°, n<sub>D</sub> 1.4278, d<sub>4</sub> 0.7772): 417(16), 441(18),  
 501(70), 543(0), 558(0), 729(10), 740(50), 820(14),  
 840(0), 858(12), 947(13), 976(0), 1005(20), 1000(1),  
 1078(10), 1105(2), 1169(20), 1218(15), 1253(15), 1297  
 (12), 1343(27), 1355(27), 1446(52), 1461(52), 2090(4),  
 2843(200), 2854(200), 2871(100), 2904(100), 2915(194),  
 2929(194), 2952(30), 2975(30). *Cis* analog (bp 129.6-  
 9.8°, n<sub>D</sub> 1.4356, d<sub>4</sub> 0.7962): 280(0), 315(0), 333(5),  
 418(22), 472(2), 501(0), 539(15), 566(7), 731(97), 800(4),  
 842(24), 882(1), 920(2), 945(14), 970(17), 1007(20),  
 1054(14), 1090(21), 1191(14), 1223(0), 1257(24), 1304  
 (12), 1319(12), 1340(2), 1442(43), 1401(30), 2905(0),  
 2953(153), 2972(100), 2994(100), 2927(172), 2958(30),  
 2971(20). *trans*-1,3-Dimethylcyclohexane (prepd. simi-

larly from  $\beta$ -methylcyclohexanone;  $b_{\text{ms}}$  120.4-20.6°,  $n_D^{20}$  1.4230,  $d_4^{20}$  0.7660): 254(6), 499(13), 419(38), 450(13), 540(47), 740(0), 771(68), 829(1), 849(12), 890(0), 934(3), 955(3), 983(13), 1000(6), 1050(36), 1070(2), 1112(6), 1160(22), 1170(22), 1210(12), 1218 (11.5), 1303(7.7), 1340(22), 1354(29), 1440(20), 1490 (50), 2062(0), 2841(190), 2865(210), 2909(100), 2927 (292), 2955(151). The cis isomer (prepd. as above) ( $b_{\text{ms}}$  124.4-4.0°,  $n_D^{20}$  1.4310,  $d_4^{20}$  0.7845): 314(0), 355(4), 375(4), 438(0), 455(10), 488(8.9), 623(13), 732(123), 822(3), 841(0), 892(10.3), 935(13), 981(8), 1007(13), 1020(0), 1050(23), 1075(8), 1101(11), 1164(17), 1212 (9.5), 1262(29), 1308(4), 1330(4), 1384(3), 1439(42), 2720(0), 2841(150), 2868(200), 2890(190), 2921(200), 2942(100), 2960(100). 1,1-Dimethylcyclohexane (by hydrogenation of meson with Pt;  $b_{\text{ms}}$  110.3°,  $n_D^{20}$  1.4204,  $d_4^{20}$  0.7810): 302(3), 322(18), 350(6), 400(2), 427(3), 460(13), 557(17), 700(133), 790(2), 828(25), 832(12), 919(10), 939(13), 963(18), 980(6), 1028(30), 1052(2), 1080(7.5), 1151(3), 1173(4), 1190(23), 1240(13), 1267 (24), 1283(7), 1297(13), 1352(4), 1441(51), 1468(23), 2644(2), 2716(2), 2757(2), 2843(100), 2900(172), 2900 (170), 2910(194), 2949(173), 2971(20). n-Nonane (from 5-nonanol, from  $\text{HCOEt}$  and  $\text{BuMgBr}$ , by dehydration and hydrogenation over Pt-C;  $b_{\text{ms}}$  149.9°,  $n_D^{20}$  1.4057,  $d_4^{20}$  0.7182): 248(5), 267(10.1), 287(3), 347(1), 382(0), 405(2), 410(1), 454(0), 751(0), 786(3), 828(4), 842(4), 873(5.3), 894(8.1), 927(0), 955(1), 973(2), 1023(1), 1063(6.5), 1070(0), 1092(0), 1130(4.1), 1163(2), 1194(0), 1304(17), 1315(2), 1342(0), 1371(0), 1438(35), 1450(37), 2720(3), 2854(190), 2870(190), 2911(180), 2915(180), 2938(170), 2963(150). 2-Methyloctane (from methyl heptyl ketone by Grignard reaction, followed by dehydration and hydrogenation over Ni;  $b_{\text{ms}}$  143.0°,  $n_D^{20}$  1.4035,  $d_4^{20}$  0.7135): 251(13), 267(2), 284(2), 301(2), 421(1), 450(2), 701(3), 825(7.7), 850(2), 863(2), 878(2), 883(4), 910(0),

941(0), 955(0), 981(0), 1021(0), 1047(0), 1065(4), 1083(4.0), 1090(4), 1143(5.8), 1173(3.0), 1201(0), 1290(0), 1305(11), 1308(4.7), 1343(11), 1401(41), 2720 (10), 2850(120), 2870(180), 2910(180), 2938(150), 2962 (130). 3-Methyloctane (from  $\text{MePrCO}$  and  $\text{AmMgBr}$ , followed by dehydration and hydrogenation over Pt-C) ( $b_{\text{ms}}$  143-3.1°,  $n_D^{20}$  1.4088,  $d_4^{20}$  0.7200): 202(4.2), 291(4.2), 370(1), 420(1), 463(1), 710(0), 753(2), 772(4), 799(1), 815(2), 843(3), 874(4), 896(1), 917(4), 942(0), 969(2), 1002(2), 1041(4.5), 1062(4.5), 1083(4.5), 1145(5.1), 1164(4.5), 1203(0), 1270(2), 1305(8.3), 1352(2), 1443 (50), 1463(50), 2723(0), 2851(190), 2873(190), 2900(174), 2938(174), 2965(134). 4-Methyloctane (from  $\text{MePrCO}$  and  $\text{BuMgBr}$ , as above;  $b_{\text{ms}}$  141-1.2°,  $n_D^{20}$  1.4089,  $d_4^{20}$  0.7200): 290(10.5), 305(2), 353(0), 374(0), 432(0), 727(0), 741(0), 781(1), 812(2), 830(1), 890(0), 874(4.4), 895(0.2), 938(2), 989(7), 1030(7.7), 1082(5), 1142(6.7), 1161(4), 1200(0), 1271(1), 1301(11.4), 1330(1), 1440(41), 1461(37), 2727(2), 2848(140), 2870(190), 2965(170), 2913(170), 2830(150), 2963(130). 3-Ethylheptane (from  $\text{EtCO}$ , as above;  $b_{\text{ms}}$  141.0-2.0°,  $n_D^{20}$  1.4085,  $d_4^{20}$  0.7251): 286(5.7), 293(5.7), 328(0), 454(1), 500(0), 734(0), 750(3), 843(3.6), 873(3), 890(6.1), 944(2), 951(2), 1013(2), 1043(0.6), 1066(3), 1085(3), 1154(5.6), 1211(0), 1242(0), 1277(2), 1306(8.2), 1300(0), 1444(45), 1462(45), 2732(1), 2853(190), 2872(190), 2965(182), 2913(182), 2935(182), 2965(131). 2,4-Dimethyl-3-ethyl-pentane (from iso- $\text{PrCO}$ , as above;  $b_{\text{ms}}$  135.5-0.5°,  $n_D^{20}$  1.4131,  $d_4^{20}$  0.7365): 210(0), 313(3), 327(6.3), 347(0), 391(0), 457(0), 482(6.8), 529(0), 572(5.7), 580(0), 623(0), 715(4), 735(2), 792(6.1), 812(2), 846(4.1), 884(0.9), 918(0), 938(3.1), 950(12), 965(3), 1033(8.1), 1051(7.0), 1063(1), 1085(0), 1120(0), 1162(6.0), 1175 (6.3), 1190(5), 1200(3.4), 1270(3.8), 1320(9.4), 1353(2), 1380(1), 1448(20), 1462(26), 2722(3.4), 2704(3.1), 2848(23), 2873(104), 2890(87), 2900(90), 2935(80), 2902(103), 2977(40). G. M. Kosolapoff

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3

Optical investigation of hydrocarbons. VI. Raman spectra of aromatic hydrocarbons. P. A. Barchuk, S. A. Ukholin, A. L. Liberman, S. S. Novikov, and B. A. Kazanin (P. N. Lebedev Phys. Inst., Acad. Sci. U.S.S.R., Moscow). *Invest. Akad. Nauk S.S.S.R., Otdel. Khim. Nauk* 1950, 501-6; cf. *C.A.* 44, 1331e.—The following Raman spectra were measured, with an accuracy of 1 cm.<sup>-1</sup> for sharp lines, and ~ 3 cm.<sup>-1</sup> for diffuse lines, on carefully purified substances. **C.H.**, 405(0, b), 607(117), 690(0), 827(0), 850(30), 979(1), 984(3), 992(1270), 993(3), 1008(0), 1178(110), 1405(8), 1580(69), 1606(42), 2616(2), 2951(30), 3047(170), 3083(424). **PhMe**, 217(136, b), 346(14), 414(0, b), 521(100), 623(49, b), 729(20), 790(308), 812(2), 842(5), 895(10), 1004(668), 1031(148), 1090(0, b), 1166(37), 1181(20), 1211(127), 1331(0), 1381(36), 1490(5, b), 1504(4, b), 1580(32), 1600(66), 2737(10), 2870(40, b), 2920(99), 2954(10), 2981(30), 3002(20), 3012(70), 3054(218), 3087(100), 3107(0). **PhEt**, 150(170, b), 297(10, b), 405(4, b), 488(29), 558(14), 622(47), 751(20, b), 771(88), 843(10), 904(12), 909(39), 1005(435), 1032(92), 1068(14), 1102(2), 1157(23), 1181(10), 1212(72), 1245(0), 1322(18), 1335(18), 1381(2), 1444(22), 1458(20), 1583(20), 1600(74).

2722(0), 2858(30), 2876(40), 2884(40), 2910(40), 2934(107), 2967(50), 3001(15), 3032(40), 3053(200), 3086(170). **p-C.H.Me**, 179(212), 257(109), 333(2, b), 434(2, b), 506(70), 582(213), 735(588), 802(8), 931(5), 980(40), 1022(0), 1052(277), 1159(30), 1223(219), 1290(5), 1372(10), 1384(78), 1415(3), 1448(28, b), 1460(5, b), 1583(37), 1606(64), 2732(10), 2860(20), 2878(20), 2919(102), 2945(30), 2971(25), 2983(25), 3026(25), 3046(85), 3079(30). **m-C.H.Me**, 205(120), 230(169), 279(30), 511(88), 538(229), 560(0), 591(3), 728(438), 770(10), 829(0, b), 882(0, b), 1000(644), 1036(27), 1065(0), 1095(20), 1171(2), 1251(117), 1267(30), 1379(86), 1428(15, b), 1481(15, b), 1592(26), 1613(40), 2732(10), 2804(50), 2917(152), 2950(20, b), 3008(20, b), 3032(40), 3051(60). **p-C.H.Me**, 313(124, b), 380(5), 450(200), 482(0), 617(0), 645(104), 671(3), 702(3), 810(109), 820(410), 938(0), 971(3), 1001(2), 1058(3), 1183(41), 1205(328), 1248(0), 1313(3), 1379(104), 1441(15, b), 1458(15, b), 1581(10), 1618(140), 2734(15), 2804(80).

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2921(101), 2954(30, b), 2974(4, b), 3012(61), 3030(57),  
 3054(103), PhPr, 224(0, b, background), 263(20, back-  
 ground), 278(20, background), 319(20), 332(0), 490(22),  
 500(2), 622(51), 740(48), 803(30), 818(40), 843(3), 863(3),  
 898(15), 903(15), 1000(45), 1031(84), 1090(19), 1156(27),  
 1180(15), 1203(74), 1289(1), 1284(8, b), 1338(11), 1354  
 (2, b), 1441(34), 1458(15, b), 1584(27), 1600(87), 2726(5),  
 2851(50, b), 2870(100), 2907(137), 2935(134), 2964(0),  
 3003(20), 3008(80), 3052(231), 3055(230), 1-Me-3-Et-  
 C.H., 140(283), 107(70, b), 223(83, b), 320(1, b),  
 330(22), 530(85), 587(2, b), 701(0), 721(208), 782  
 (2, b), 843(3, b), 872(3), 1022(424), 1035(17), 1086(17),  
 1101(7, 7), 1172(113), 1242(42), 1253(42), 1328(14),  
 1377(27), 1443(17), 1456(10), 1590(22), 1612(37), 2726(5),  
 2850(100), 2872(100), 2896(40), 2915(208), 2934(208),  
 2967(111), 3000(40), 3032(60), 3051(128), 1,3,5-C<sub>6</sub>H<sub>3</sub>Me<sub>3</sub>,  
 231(245), 278(62), 517(191), 578(300), 625(0), 741(2),  
 880(2), 929(2), 990(330), 1027(10), 1040(25), 1120(1),  
 1164(3), 1301(90), 1379(85), 1415(3, b), 1450(5, b), 1577

(0), 1007(01), 1031(11), 2711(5), 2867(103), 2917(310),  
 2940(50, b), 2973(20, b), 3000(120), 3023(100), 3061(20),  
 1-Me-4-Et-C<sub>6</sub>H<sub>4</sub>, 228(50), 233(4, b), 311(0), 363(12, b),  
 390(5, b), 462(20), 538(0), 646(72), 721(2), 807(142),  
 820(134), 900(0), 908(12), 1004(0, 1), 1008(20), 1184(49),  
 1202(168), 1213(1), 1284(1, b), 1323(10, b), 1379(31),  
 1442(24, b), 1457(24, b), 1677(1), 1617(93), 2731(2),  
 2860(112), 2873(112), 2903(50), 2918(225), 2931(225),  
 2900(118), 3011(108), 3019(102), 3053(109). These data  
 are considered to be much more reliable and accurate than  
 previously published data, as illustrated by a comparison  
 of data from other sources for p-C<sub>6</sub>H<sub>4</sub>Me. These new data  
 confirm the much higher intensity of Raman lines of aro-  
 matic compds. as compared with aliphatic and alicyclic  
 compds. On the same intensity scale on which the strong-  
 est lines of the aromatic compds. are expressed by a no. of  
 about 1000, the strongest lines of alicyclic compds. rate  
 about 200, and of aliphatic compds. about 60-70. N. Thon

1951

UKHOLIN, S. A.

U S S R .

Determination of individual hydrocarbons in gasolines by the combined method. V. Gasoline from Emba crude oil. B. A. Kazanskiy, G. S. Landsberg, A. F. Plate, P. A. Bazhulin, A. L. Liberman, Ye. A. Mikhaylova, M. M. Sushchinskiy, G. A. Tarasova, S. A. Ukholin, and S. V. Voron'ko. (N.D. Zelinskiy Inst. Org. Chem., Acad. Sci. U.S.S.R., Moscow). Izvest. Acad. Nauk S.S.S.R., Otdel. Khim. Nauk 1954, 865-77; cf. C.A. 48, 14170h. Analysis of a gasoline from Emba crude oil by combination distn., chromatography, and dehydrogenation-hydrogenation reactions resulted in establishing the structure of 81.1% of the hydrocarbons present. The gasoline is of naphthenic type, and the paraffins are predominantly branched. The following compts. were identified: 2,2-dimethylbutane, 2,3-dimethylbutane, 2-methylpentane, 3-methylpentane, hexane, methylcyclopentane, 2,2-dimethylpentane, 2,4-dimethylpentane, cyclohexane, 3,3-dimethylpentane, 1,1-dimethylcyclopentane, 2,3-dimethylpentane, cis- and trans-1,3-dimethylcyclopentanes, trans-1,2-dimethylcyclopentane, methyl- and ethylcyclohexanes, 1,2,4-trimethylcyclopentane, 2,2- and 2,4-dimethylhexane, 1,2,3-trimethylcyclopentane, 2,4-dimethylhexane, 1,2,3-trimethylcyclopentane, 3- and 4-methylheptane, 1,1-dimethylcyclopentane, 1,1,3-trimethylcyclohexane, 3- and 4-methyloctanes, EtPh and o-, m-, and p-xylene being the predominant aromatic hydrocarbon.

G. M. Kosolapoff

UKHOLIN, S.A.

KAZANSKIY, B.A.; LANDSBERG, G.S.; PLATE, A.F.; LIBERMAN, A.L.; MIKHAYLO-  
VA, Ye.A.; BAZHULIN, P.A.; BATUYEV, M.I.; UKHOLIN, S.A.; BULANOVA, T.F.;  
TARASOVA, G.A.

Composite method for the determination of individual hydrocar-  
bons in gasolines. Part 3. The Surakhany gasolines. Izv.AN SSSR.  
Otd.khim.nauk no.2:278-291 Mr-Ap '54. (MLRA 7:6)

1. Institut organicheskoy khimii im. N.D.Zelinskogo, Fizicheskiy  
institut im. P.N.Lebedeva Akademii nauk SSSR.  
(Hydrocarbons) (Surakhany--Petroleum) (Petroleum--Surakhany)

UKHOLIN, S. A.

USSR/ Chemistry Fuels

Card : 1/1

Authors : Kazanskiy, B. A., Landsberg, G. S., Plate, A. F., Bazhulin, P. A.,  
Liberman, A. L., Suschinskiy, N. M., Tarasova, G. A., Ukholin, S. A.,  
Voron'ko, S. V.Title : Combined method for the determination of the individual hydrocarbon  
composition of gasolines. Part 4.- Gasoline from the Tuymazinsk  
petroleum.

Periodical : Izv. AN SSSR, Otd. Khim. Nauk., 3, 456 - 459, May - June 1954

Abstract : The results obtained from the study of the individual hydrocarbon  
composition of gasoline with end point of 150<sup>o</sup>, derived from low-  
sulfur Tuymazinsk petroleum (Devonian horizon), are described. The  
quantitative, individual hydrocarbon composition of Tuymazinsk  
gasoline and the general losses are presented in percentage by  
weight values. The structure of paraffin-base gasoline derived  
from Tuymazinsk petroleum and the aromatic contents of other  
hydrocarbons are discussed. Toluene and m-xylene were found to  
be predominant among aromatic hydrocarbons. Four USSR references.  
Tables, graphs.

Institution : Acad. of Sc. USSR, The P. N. Lebedev Physics Institute

Submitted : July 20, 1953

UKHOLIN, S. A.

USSR/Physics - Conferences

Card 1/1 Pub. 124 - 17/26

Authors : Ukholin, S. A., Cand. of Phys-Math. Sc.

Title : Problems and methods of spectroscopy

Periodical : Vest. AN SSSR 10, 87-88, Oct 1954

Abstract : Minutes are presented of the scientific consultations held during June 5-11, 1954 at Tartu (Estonia), at which the numerous problems and methods of modern spectroscopy and its application were discussed. The Scientific fields represented at these consultations are listed.

Institution : .....

Submitted : .....

UKHOLIN, S. A.

USSR/ Physics - Spectral analysis

Card 1/1 Pub. 43 - 36/62

Authors : Kazanskiy, B. A.; Landsberg, G. S.; Aleksanyan, V. T.; Bulanova, T. F.;  
Liberman, A. L.; Mikhaylova, Ye. A.; Plate, A. F.; Sterin, Kh. Ye.;  
and Ukholin, S. A.

Title : Analysis of aromatic ligroin parts by the combined diffusion spectra

Periodical : Izv. AN SSR. Ser. fiz. 18/6, 704-706, Nov-Dec 1954

Abstract : Brief report is presented on the method and some results obtained during individual and close-group analysis of primary and secondary aromatics of ligroin. Analysis of results obtained showed that the basic ligroin (taken from the Embensk Petroleum Source) contained alkyl substitutes of benzene and cyclohexane with short term substituting radicals. Three refernces: 1 USA and 2 USSR (1947-1953).  
Tables.

Institution : Acad. of Sc., USSR, The N. D. Zelinskiy Inst. of Organ. Chem.  
and the Commission on Spectroscopy

Submitted : .....

UKHOLIN, S. A.

USSR/ Scientific Organization - Conferences

Card 1/1 Pub. 124 - 25/30

Authors : Ukholin, S. A., Cand. of Phys-Math. Sc.

Title : ~~Development of spectral analysis methods~~  
Development of spectral analysis methods

Periodical : Vest. AN SSSR 25/7, 122-123, Jul 1955

Abstract : Minutes are presented of a coordination meeting organized by the Commission on Spectroscopy (April 5-6, 1955) and devoted to the evaluation of reports on photoelectric methods of emission spectral analysis and to discuss plans for the publication of spectral line atlases. Announcement is made about the introduction of three new installations, two of which are intended for simultaneous analysis of many elements in an investigated sample and the third one for series analysis.

Institution : .....

Submitted : .....

UKHOLIN, S.A.

Research in spectroscopy. Vest. AN SSSR 26 no.10:102-103  
0 '56. (MLRA 9:11)

1. Kandidat fiziko-matematicheskikh nauk.  
(Spectrum analysis)



UKHOLIN, S.A.

AUTHOR: Ukholin, S. A., Candidate of Physical-Mathematical Sciences 30-2-38/49

TITLE: New Studies in the Field of Spectroscopy (Novyye raboty v oblasti spektroskopii). Conference in Moscow (Soveshchaniye v Moskve)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, . . . . . Nr 2, pp. 107-107 (USSR)

ABSTRACT: The 11th All Union Conference for Spectroscopy was held from December 2 to December 10, 1957 in Moscow. The topics were particular problems of spectroscopy and questions of luminescence. About 600 representatives of scientific research institutes of the AS USSR and the academies of the Union republics, of the branch institutes and the universities of 36 cities of the country took part. Among the guests there were scientists from China, Roumania, Yugoslavia, the German Democratic Republic, the German Federal Republic, the USA, England, and France. In 7 general meetings and 12 sectional meetings 132 reports were heard and discussed. They treated the theoretical and experimental determination of the atom constants, the spectroscopy of the plasma, of the crystals and

Card 1/2

New Studies in the Field of Spectroscopy.  
Conference in Moscow

30-2-38/49

of the transition stages, the investigation of intermolecular interactions, and the investigation of the conversion of the electric energy and spectroscopy of the stages of molecular oscillation. The opening speech was held by S. L. Mandel'shtam, Chairman of the Commission for Spectroscopy. S. E. Frish reported on Soviet spectroscopy during the last 40 years, and A. F. Prikhod'ko reported on the investigation of molecular crystals especially at low temperatures. There were also many discussions.

AVAILABLE: Library of Congress

1. Spectroscopy-Applications
2. Luminescence

Card 2/2

K. K. HOLIN, S. A.

21(0), 24(0) PHASE I BOOK EXPLOITATION' SOV/32.0  
Akademiya nauk SSSR. Fizicheskiy institut

Issledovaniya po eksperimental'noy i teoreticheskiy fizike: [sbornik] (Studies on Experimental and Theoretical Physics; Collection of Articles) Moscow, Izd-vo AN SSSR, 1959. 304 p. Errata slip inserted. 2,300 copies printed.

Ed.: I. L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; Eds. of Publishing House: A. L. Chervyak and V. G. Barigauz; Tech. Ed.: Yu. V. Rykina; Commission for Publishing and the Collection in Memory of Grigoriya Samuilovich Landberg, 1959. Academician (Chairman), Academician; M. A. Leontevich, Academician; F. A. Razhulin, Doctor of Physical and Mathematical Sciences; S. L. Mandel'shtam, Doctor of Physical and Mathematical Sciences; I. L. Fabelinskiy, Doctor of Physical and Mathematical Sciences; F. S. Landsberg-Barjayskiy, Candidate of Physical and Mathematical Sciences; and G. P. Kotulevich (Secretary), Candidate of Physical and Mathematical Sciences.

PURPOSE: This book is intended for physicists and researchers engaged in the study of electromagnetic radiations and their role in investigating the structure and composition of materials. Contents: The collection contains 30 articles which review contributions in spectroscopy, sonics, molecular optics, semiconductor physics, nuclear physics, and other branches of physics. The introductory chapter gives a biographical profile of G. S. Landsberg, Professor and Head of the Department of Optics of the Division of Physical Technology at Moscow University, and reviews his work in Rayleigh scattering, combat gases, spectral analysis of metals, etc. No personalities are mentioned. References accompany each article.

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LANDSBERG, Grigoriy Samuilovich, akademik [deceased]; KAZANSKIY, Boris Aleksandrovich, akademik; BAZHULIN, P.A., doktor fiziko-matemat. nauk; BULANOVA, T.F.; LIBERMAN, A.L., MIKHAYLOVA, Ye.A.; PLATE, A.F.; STERIN, Kh.Ue.; SUSHCHINSKIY, M.M.; TARASOVA, G.A.; UKHOLIN, S.A.; BRUSOV, I.I., red.izd-va; KASHINA, P.S., tekhn.red.

[Determination of the individual hydrocarbon composition of straight-run gasolines by the combined method] Opređenje individual'nogo uglevodorodnogo sostava benzinov priamoi gonki kombinirovannym metodom. Moskva, Izd-vo Akad.nauk SSSR, 1959. (MIRA 12:8)  
362 p.

(Gasoline)

24(7)

SOV/30-59-2-44/60

AUTHOR:

Ukholin, S. A., Candidate of Physical and Mathematical Sciences

TITLE:

Practical Application of Spectroscopic Methods (Prakticheskiye primeneniya spektroskopicheskikh metodov)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 101-103 (USSR)

ABSTRACT:

The 12th Conference on Spectroscopy took place in Moscow from November 19 to 26, 1958. Representatives of a number of institutions of the Academy of Sciences of the USSR and the Academies of Sciences of the Union's Republics, of works laboratories, scientific branch research institutes, geological administrations, of authorities and universities of 95 towns of the country as well as guests from the Polish People's Republic, about 1500 persons totally attended the Conference. 168 reports were heard and discussed in 7 plenary and 18 committee meetings. The following reports were delivered: V. V. Voyevodskiy and L. A. Blyumenfel'd demonstrated the application of electromagnetic paramagnetic resonance, magnetic nuclear resonance and radio-spectroscopy for investigation of the material structure and for analytical purposes. L. V. Lipis spoke of the importance of spectrum analysis in nuclear power engineering, the industry of

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semiconductors and vacuum engineering in the electrical industry. Reports on measurement and utilization of the intensities in infrared spectra were discussed (V. M. Chulanovskiy), in Raman spectra (P. A. Bazhulin, M. M. Sushchinskiy), on the intensities of electronic spectra of vapors and solutions (B. S. Neporent), on spectrum analysis in crystallochemistry and physical chemistry (F. D. Klement), on isotopic analysis (A. N. Zaydel'), on luminescence spectrum analysis (E. V. Shpol'skiy), on polarization methods in spectroscopy (P. P. Feofilov), and on the application of spectroscopy in biochemistry and biology (L. A. Tumerman). 5 lectures were delivered for the participants of the Conference: on the foundations of quantitative spectrum analysis (V. K. Prokof'yev), on optic-acoustic phenomena and their application for gas analysis and investigation of molecules (M. L. Veyngerov), on X-ray spectrum analysis (I. B. Borovskiy), on photoelectric spectrum analysis (I. S. Abramson), on statistic investigations in material analysis (V. V. Nalimov). The fundamental topics in the work of the committees were: photoelectric methods in spectrum analysis; the elaboration of quantitative methods of spectrum analysis; the analysis of gases in metals; the introduction of

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the methods of spectrum analysis into industries as well as standardization of methods; the part played by spectroscopy in the analysis of ores and minerals. Problems of the construction of new spectroscopic apparatus as well as of the completion of already existing apparatus were also discussed. An exposition of posters and drawings of various apparatus was also arranged at the place of the Conference.

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